

to 35 U.S.C. § 251. The applicant has assigned this '307 patent to Calico Brands, Inc. A copy of the recorded assignment from inventor Mr. Ming Yu Chang was included with the required Statement Under 37 CFR 3.73(b).

5 Pursuant to 37 CFR § 1.173, the applicant respectfully requests the following amendments to claims 1 and 10 and the addition of new claims 13-16. Please amend Claims 1 and 10 as follows:

10 Claim 1 (Second Amended). A disposable lighter, comprising:

a lighter body for receiving a liquefied fuel therein;

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a mounting frame, which is sealedly affixed on top of said lighter body, comprising a first and a second supporting wall [integrally, parallelly, vertically, and] upwardly extended from
15 two sides of said mounting frame, said mounting frame further having a vertical spring chamber between said first and second supporting walls;

a flint spring being received in said spring chamber;
a gas lever being pivotally mounted between said first and second
20 supporting walls [and having a central cutout to allow said spring penetrating therethrough to insert into said spring chamber, said gas lever further integrally providing a thumb pusher at one end thereof];

a gas valve with a gas nozzle [extending upwards above said
25 mounting frame being installed inside said mounting frame,] said gas nozzle being engaged with [another] an end of said gas lever[,

so that when said thumb pusher is pushed downwardly, said another end of said gas lever lifts said gas nozzle] to permit release of gas from an interior of said lighter body via said gas valve;

an ignition device comprising a flint and a striking wheel,

5 [wherein said flint is supported on top of said flint spring with a bottom portion thereof inserting into said spring chamber,] said striking wheel [which has] having a circumferential coarse striking surface being positioned right above and in contact with said flint [by] and rotatably mounting between said first and
10 second supporting walls, [so that said flint is pressed downwardly by said circumferential coarse striking surface of said striking wheel, and that said flint is relatively pressed by said flint spring upwards to urge against said circumferential coarse striking surface of said striking wheel, said circumferential
15 coarse striking surface having a width slightly larger than a diameter of said flint,] wherein said striking wheel further [comprises] comprising two circular discs [integrally formed] located at [said] two sides of said striking [wheel] surface, each of said circular discs having a [glossy] circumferential surface
20 and [a width equal] positioned within to each of [said] two gaps formed between said first and second supporting walls and said striking wheel; and

a U-shaped wind shield mounted on said first and second supporting walls to cover said gas nozzle and said first and
25 second supporting walls, said wind shield having an all around vertical U-shaped side wall which has a round end portion and two

wing [portion] portions extending from said round end portion, a top wall horizontally and inwardly extending from a top side of said round end portion of said U-shaped side wall and defining a cutout right above said gas nozzle, and a first and a second L-shaped bent-edge [member] members which are respectively and perpendicularly bent from a top side and an end side of said wing portions, wherein said first and second bent-edge members are respectively extended from said top wall along said top side and said end side of each of said wing portions for fittedly and respectively resting on a horizontal top edge and a vertical rear edge of each of said first and second supporting walls, a top end corner of each of said wing portions forming a curved corner which has a curvature matching with at least a quarter of a circumference of said striking wheel, so that said striking wheel is sidewardly covered by said two wing portions of said [windshield] wind shield, wherein said first and second bent-edge members of said wind shield are respectively and inwardly extended until abutting two sides of said striking wheel to form two protecting bent-edge members [in order to cover two gaps formed between said striking wheel and said first and second supporting walls] for better striking contact by increasing a contact area with a user's thumb.

Claim 10 (Amended). A disposable lighter, comprising:

a lighter body for receiving a liquefied fuel therein;
a mounting frame, which is sealedly affixed on top of said lighter

body, comprising a first and a second supporting wall integrally, parallelly, vertically, and upwardly extended from two sides of said mounting frame, said mounting frame further having a vertical spring chamber between said first and second supporting walls;

5 a flint spring being received in said spring chamber;

a gas lever being pivotally mounted between said first and second supporting walls and having a central cutout to allow said spring penetrating therethrough to insert into said spring chamber, said gas lever further integrally providing a thumb
10 pusher at one end thereof;

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a gas valve with a gas nozzle extending upwards above said mounting frame being installed inside said mounting frame, said gas nozzle being engaged with another end of said gas lever, so that when said thumb pusher is pushed downwardly, said another end
15 of said gas lever lifts said gas nozzle to release gas from an interior of said lighter body via said gas valve;
an ignition device comprising a flint and a striking wheel, wherein said flint is supported on top of said flint spring with a bottom portion thereof inserting into said spring chamber, said
20 striking wheel which has a circumferential coarse striking surface being positioned right above said flint by rotatably mounting between said first and second supporting walls, so that said flint is pressed downwardly by said circumferential coarse striking surface of said striking wheel, and that said flint is relatively
25 pressed by said flint spring upwards to urge against said circumferential coarse striking surface of said striking wheel,

said circumferential coarse striking surface having a width slightly larger than a diameter of said flint, wherein said striking wheel further comprises two circular discs integrally formed at [said] two sides of said striking wheel, each of said
5 circular discs having a [glossy] circumferential surface and a width equal to two gaps formed between said first and second supporting walls and said striking wheel, said circular discs each having a diameter equal to that of said striking wheel so as to fill said two gaps respectively; and

10 a U-shaped wind shield mounted on said first and second supporting walls to cover said gas nozzle and said first and second supporting walls, said wind shield having an all around vertical U-shaped side wall which has a round end portion and two wing [portion] portions extending from said round end portion, a
15 top wall horizontally and inwardly extending from a top side of said round end portion of said U-shaped side wall and defining a cutout right above said gas nozzle, and a first and a second L-shaped bent-edge [member] members which are respectively and perpendicularly bent from a top side and an end side of said wing
20 portions, wherein said first and second bent-edge members are respectively extended from said top wall along said top side and said end side of each of said wing portions for fittedly and respectively resting on a horizontal top edge and a vertical rear edge of each of said first and second supporting walls, a top end
25 corner of each of said wing portions forming a curved corner which has a curvature matching with at least a quarter of a

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circumference of said striking wheel, so that said striking wheel
is sidewardly covered by said two wing portions of said
[windshield] wind shield.

Please add the following new claims 13 to 16:

Claim 13. A disposable lighter, comprising:

a lighter body for receiving a liquefied fuel therein;

a mounting frame, which is sealedly affixed on top of said

5 lighter body, comprising a first and a second supporting wall
upwardly extended from two sides of said mounting frame, said
mounting frame further having a vertical spring chamber between
said first and second supporting walls;

a flint spring being received in said spring chamber;

10 a gas lever being pivotally mounted between said first and second
supporting walls;

a gas valve with a gas nozzle, said gas nozzle being engaged
with an end of said gas lever to permit release of gas from an
interior of said lighter body via said gas valve;

15 an ignition device comprising a flint and a striking wheel,
said striking wheel having a circumferential coarse striking
surface being positioned right above and in contact with said
flint and rotatably mounting between said first and second
supporting walls, wherein said striking wheel further comprising
20 two circular discs located at two sides of said striking surface,
each of said circular discs having a circumferential surface and
positioned within to each of two gaps formed between said first
and second supporting walls and said striking wheel; and

a U-shaped wind shield extends over said first and second
25 supporting walls to cover said gas nozzle and said first and
second supporting walls, said wind shield having an all around

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vertical U-shaped side wall which has a round end portion and two wing portions extending from said round end portion, and a first and a second L-shaped bent-edge members which are respectively and perpendicularly bent from a top side and an end side of said wing portions, said striking surface at an elevation lower than said bent-edge members, wherein said first and second bent-edge members are respectively extended from (said top wall) along said top side and said end side of each of said wing portions, a top end corner of each of said wing portions forming a curved corner which has a curvature matching with at least a quarter of a circumference of said striking wheel, so that said striking wheel is sidewardly covered by said two wing portions of said wind shield, wherein said first and second bent-edge members of said wind shield are inwardly extended to form two protecting bent-edge members for better striking contact by increasing a contact area with a user's thumb.

Claim 14. A disposable lighter, as recited in claim 13, wherein each of said circular discs has a diameter equal to that of said striking wheel.

Claim 15. A disposable lighter, as recited in claim 13, wherein each of said circular discs has a diameter smaller than that of said striking wheel to form a supporting disc.

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Claim 16. A disposable lighter, as recited in claim 13, wherein
each of said circular discs has a diameter larger than that of
said striking wheel.

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